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【実用新案登録請求の範囲】

【請求項1】 実行可能な付加機能を表示して操作パネルに配列されてなるワンタッチ機能キー群と、該ワンタッチ機能キー群の何れかのキーが操作された際にそのワンタッチ機能キーに表示された付加機能の制御プログラムを選択実行する信号処理部とを備えてなることを特徴とするワンタッチ機能キーを有したファクシミリ装置。

【図面の簡単な説明】

【図1】 本考案に係るファクシミリ装置の要部構成の一例を示すブロック図。

* 【図2】 操作パネルの一例を示す正面図。

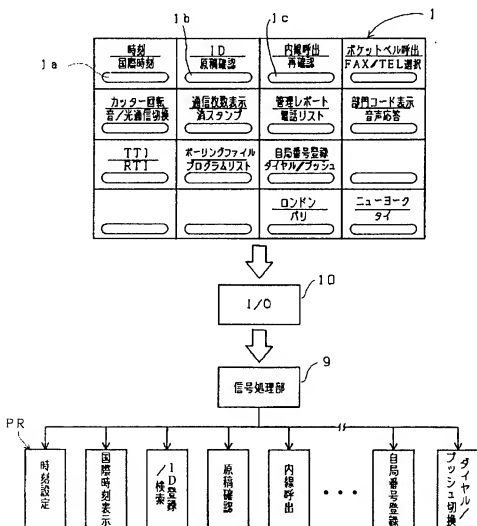
【図3】 本考案に係るファクシミリ装置の外観の一例を示す斜視図。

【図4】 本考案に係るファクシミリ装置の動作手順の一例を示すフローチャート図。

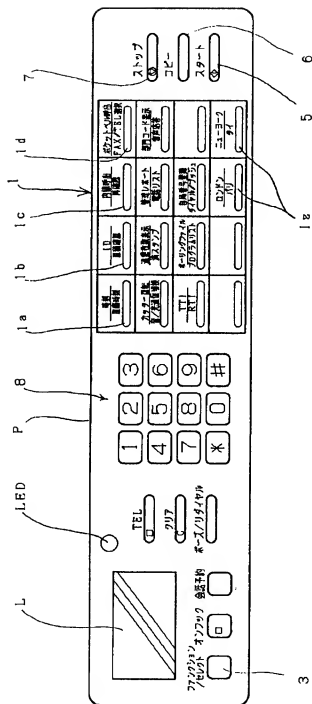
【符号の説明】

- 1 ワンタッチ機能キー群
1 a 1 b ワンタッチ機能キー
9 信号処理部
*10 P 操作パネル

【図1】



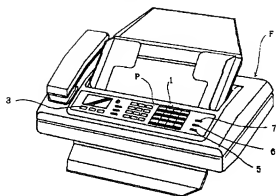
【図2】



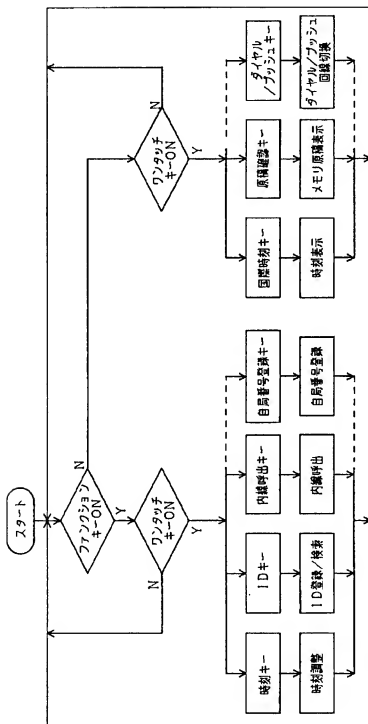
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実開平5-28166

【図3】



【図4】



【考案の詳細な説明】**【0001】****【産業上の利用分野】**

本考案は、操作パネルにワンタッチ機能キーが設けられたファクシミリ装置に関する。

【0002】**【従来の技術】**

近時のファクシミリ装置は、一台の装置に様々な付加機能を具備させる多機能化傾向にあるが、従来では、キースペースの縮小化のために、これら種々の付加機能をファンクションキーとテンキーを用いて選択、実行するように構成されているのが実情である。

【0003】**【考案が解決しようとする課題】**

しかしながら、上記従来のものでは、ファンクションキーとテンキー操作で各種付加機能を選択、実行させるために、付加機能に応じたファンクションキーとテンキー操作をコード表等のマニュアルで逐一確認しながら行う必要があり、甚だ不便である。また、かかる難点はファクシミリ装置が多機能化するほど顕著となり、煩雑なファンクションキーとテンキー操作の誤操作も多発するという虞れがあった。

本考案は、上記従来の難点を解消し、ファクシミリ装置に付加された機能の選択、実行を、マニュアルの参照等を必要とせず、簡易、迅速に行うことができるファクシミリ装置を提供することを目的とする。

【0004】**【課題を解決するための手段】**

上記目的を達成するために提案された本考案に係るワンタッチ機能キーを有したファクシミリ装置は、実行可能な付加機能を表示して操作パネルに配列されるワンタッチ機能キー群と、該ワンタッチ機能キー群の何れかのキーが操作された際にそのワンタッチ機能キーに表示された付加機能の制御プログラムを選択実行する信号処理部とを備えている。

【0005】

【作用】

上記構成を特徴とするワンタッチ機能キーを有したファクシミリ装置においては、ファクシミリ装置に付加された実行可能な機能が、操作パネルに配列されたワンタッチ機能キーの表示により直ちに判別できる。また、付加機能の実行に際して、その付加機能に該当するワンタッチ機能キーを操作すれば、信号処理部が当該付加機能の制御プログラムを直ちに選択して実行することとなり、煩雑なファンクションキーとテンキー操作が不要となる。

【0006】

【実施例】

以下、本考案に係るワンタッチ機能キーを有したファクシミリ装置の一実施例について図面を参照して説明する。

図1は本考案の要部構成を示したブロック図、図2は操作パネルの外観図、図3はファクシミリ装置の外観図である。

これら各図に示すように、本実施例に係るファクシミリ装置Fは、ファクシミリ装置本体の外面部に形成された操作パネルPに、機能選択キーであるファンクションセレクトキー3、スタート用キー5、コピー用キー6、ストップ用キー7、テンキー8などの各種操作用キーとともに、ファクシミリ装置に付加された所定の付加機能を実行するためのワンタッチ機能キー群1が配列して設けられている。Lは液晶表示器である。

【0007】

ワンタッチ機能キー群1の各ワンタッチ機能キー1a、1b、・・・は、特定の付加機能を選択実行するためのもので、これら各キーには二種類の付加機能の内容が二段並記で簡明に表示されている。すなわち、ワンタッチ機能キー1aは、ファクシミリを時刻設定モードに設定するための時刻設定機能と、ある特定の外国の時刻を液晶表示器Lに表示させるための国際時刻確認機能とが兼用されたものである。尚、ワンタッチ機能キー1zは、前記キー1aで国際時刻確認モードに設定した後に時刻を知りたい外国を選択するためのもので、予め登録された種々の外国名又は都市名が表示されている。ワンタッチ機能キー1bは、所謂1

D機能と原稿確認機能とが兼用されたものであり、前者のID機能とは、例えば親展通信や受信原稿の区別、又はメモリ原稿の整理など他人と自分とを区別するID番号を、登録、検索、入力するためのものである。また、後者の原稿確認機能とは、ファクシミリのメモリに読み込まれた原稿の量や情報を液晶表示器Lに表示させたり、或いは記録紙に1/4の縮小文字で印字出力させるものである。以下、同様にキー1c、1d・・・も様々な付加機能を選択実行するためのもので、上記以外の機能としては、例えば親機と子機間又は子機間どうして内線呼び出しを行って電話の転送を行うための内線呼出機能、メモリ原稿を複数箇所に送信するための再送信機能、ファクシミリ装置に着信があるとポケットベルを呼び出してファクシミリ着信を知らせ、更に外出先からボーリングで原稿を受信するためのポケットベル呼出機能、記録紙の紙詰まりが生じた場合等に記録紙用のカッターを刃が上がりきった紙詰まり解除の位置に復帰させるためのカッター回転機能、着信時の呼出音を消音させ、その代わりに操作パネルP上のLEDを発光させる音/光着信切換え機能等を具備し、その他従来既知の付加機能も適宜兼備している。

【0008】

ファクシミリ装置Fの要部をなすハード構成は、図1に示すように、前記ワンタッチ機能キー群1に信号処理部9がインターフェイス10を介して接続されている。信号処理部9は、ワンタッチ機能キー1a・・・の何れかが操作された際に、そのワンタッチ機能キーに表示された付加機能に応じた制御プログラムPRを選択し実行するものである。但し、ワンタッチ機能キー1aのように、時刻設定と国際時刻確認との二機能を兼用するようなキーでは、予めファンクションセレクトキー3をオン・オフ操作することにより、上下二段並記された機能のうち上下何れか一方側の機能を適宜選択できるように構成されている。

【0009】

上記構成のファクシミリ装置Fによれば、各種付加機能がワンタッチ機能キー群1の表示を見ることにより容易に確認でき、所望の機能を簡単に選択できる。また、その選択は必要に応じてファンクションセレクトキー3を操作するものの、その後は所定のワンタッチ機能キーを操作するだけで信号処理部9を作動させ

て実行できるから、その操作は非常に簡単で且つ過誤もない。

図4は上記本実施例に係るファクシミリ装置Fにおけるワンタッチ機能キー群1の操作手順の一例をフローチャートとして示したものである。

尚、上記実施例では、一つのワンタッチ機能キーで二つの異なる機能を選択実行し得るように構成したが、本考案はこれに限定されない。一つのワンタッチ機能キーが一つの機能の選択実行のみを行うものに構成しても構わない。また、1つのワンタッチ機能キーに付加機能とワンタッチダイヤルを割当て、適宜選択、実行できるようにすることも可能である。かかる場合にはファンクションセレクトキー3を操作する必要がなく一層便利である。

【0010】

【考案の効果】

以上のように、本考案に係るワンタッチ機能キーを有したファクシミリ装置によれば、ファクシミリ装置に付加された様々な機能を実行する際に、従来のようにファンクションキーとテンキーを前提とした面倒なキー操作を行う必要がなく、コード表等のマニュアルを参照することなくワンタッチ機能キーを操作して所定の機能を容易正確に、且つ迅速に実行でき、すこぶる便利である。

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CLAIMS

[Claims]

[Claim 1]A one-touch function key group which displays an option which can be performed and a navigational panel comes to arrange. A facsimile machine with a one-touch function key which is provided with a signal processing part which does selection execution of the control program of an option displayed on the one-touch function key when which key of this one-touch function key group was operated, and is characterized by things.

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DETAILED DESCRIPTION

[Detailed explanation of the device]

[0001]

[Industrial Application]

This design is related with the facsimile machine with which the one-touch function key was provided in the navigational panel.

[0002]

[Description of the Prior Art]

Although the latest facsimile machine is in the multi-functionalization tendency to make one piece of equipment possess various options, it comprises the former the actual condition so that a function key and a ten key may be used and the option of these versatility may be chosen and performed for the reduction of a key space.

[0003]

[Problem(s) to be Solved by the Device]

However, in the above-mentioned conventional thing, in order to choose and perform various options by a function key and tenkeys operation, it is necessary to carry out, checking the function key and tenkeys operation according to an option in detail by manuals, such as a code table, and very inconvenient. It became so remarkable [a difficulty] that a facsimile machine multi-functionalizes this difficulty, and there was a possibility that the operation mistakes of a complicated function key and tenkeys operation might also occur frequently.

This design cancels the above-mentioned conventional difficulty, and aims at providing the facsimile machine which does not need reference of a manual, etc. but can perform simply and promptly selection of the function added to the facsimile machine, and execution.

[0004]

[Means for solving problem]

To achieve the above objects, the facsimile machine with the one-touch function key concerning proposed this design is provided with the following.

The one-touch function key group which displays the option which can be performed and a navigational panel comes to arrange.

The signal processing part which does selection execution of the control program of the option displayed on the one-touch function key when which key of this one-touch function key group was operated.

[0005]

[Function]

In a facsimile machine with the one-touch function key characterized by the above-mentioned composition, the function which was added to the facsimile machine and which can be performed can distinguish promptly by the display of the one-touch function key arranged by the navigational panel. If the one-touch function key applicable to the option is operated when performing an option, a signal processing part will choose the control program of the option concerned promptly, and will execute it, and a complicated function key and tenkeys operation will become unnecessary.

[0006]

[Working example]

Hereafter, one embodiment of a facsimile machine with the one-touch function key concerning

this design is described with reference to Drawings.

The outline view of a navigational panel and drawing 3 of the block diagram and drawing 2 which drawing 1 showed the important section composition of this design are the outline views of a facsimile machine.

As shown in these each figure, facsimile machine F concerning this example, To navigational panel P formed in the surface part of a facsimile machine body, with various keys for operation which are function selection keys, such as the function selection key 3, the key 5 for a start, the key 6 for a copy, the key 7 for a stop, and the ten key 8. The one-touch function key group 1 for performing the predetermined option added to the facsimile machine arrangements, and is provided. L is a liquid crystal display.

[0007]

It is for each one-touch function keys 1a and 1b of the one-touch function key group 1 and ... carrying out selection execution of the specific option, and the contents of two kinds of options are briefly displayed on these each key in about the same account as two step. That is, a time setting function for the one-touch function key 1a to set a facsimile as time setting mode and the international time acknowledgement function for displaying the time of a certain specific foreign country on the liquid crystal display L are made to serve a double purpose. After setting the one-touch function key 1z as international time check mode by said key 1a, it is for choosing the foreign country which wants to know time, and the various foreign country names or city names which were registered beforehand are displayed. What is called ID function and a manuscript acknowledgement function are made to serve a double purpose, and the former ID function of the one-touch function key 1b is for registering, searching and inputting the ID number which distinguishes itselfs, for example, [of confidential communication, distinction of a receiving manuscript, or a memory manuscript] [others, such as arrangement, and oneself] The latter manuscript acknowledgement function displays on the liquid crystal display L the quantity and the information on the manuscript read into the memory of the facsimile, or carries out a printout to a recording form with one fourth of half size letters.

Hereafter, 1d is the key 1c and a thing for ... to also carry out selection execution of various options similarly, and as functions other than the above. For example, the extension call function for performing an extension call between a main phone and a cordless handset or between cordless handsets, and transmitting a telephone, If the retransmission-of-message function for transmitting a memory manuscript to two or more places and a facsimile machine have mail arrival, will call a pager and facsimile arrival will be told, The pager calling function for receiving a manuscript by polling from a place where one has gone, The cutter rotary function for returning the cutter for recording forms to the position of the paper jam release which the edge had gone up, when the paper jam of a recording form arises, The sound / optical arrival change function to make the ringing tone at the time of mail arrival muffle, instead to make LED on navigational panel P emit light are provided, in addition it also has the option of the conventional known suitably.

[0008]

As the hard structure which makes the important section of facsimile machine F is shown in drawing 1, the signal processing part 9 is connected to said one-touch function key group 1 via Interface Division 10. the signal processing part 9 — the one-touch function key 1a — when it is operated any of ... they are, control program PR according to the option displayed on the one-touch function key are chosen and performed. however, the inside of the function by which the account about the same as two steps of upper and lower sides was carried out like the one-touch function key 1a by carrying out on-off operation of the function selection key 3 beforehand by a key which makes two functions of time setting and an international time check serve a double purpose — one of the upper and lower sides — it is constituted so that a near function can be chosen suitably.

[0009]

According to facsimile machine F of the above-mentioned composition, by seeing the display of the one-touch function key group 1, various options can check easily and can choose a desired function easily.

Although the selection operates the function selection key 3 if needed, since it can be performed by operating the signal processing part 9 only by operating a predetermined one-touch function key after that, the operation is dramatically easy and does not have a mistake, either.

Drawing 4 shows an example of the operating procedure of the one-touch function key group 1 in facsimile machine F concerning above-mentioned this example as a flow chart. It constituted from an above-mentioned embodiment so that selection execution of the two different functions could be carried out by one one-touch function key, but this design is not limited to this. One one-touch function key may constitute in what performs only selection execution of one function. It is also possible to assign an option and an one-touch dial to one one-touch function key, and to enable it to perform by choosing suitably. In this case, it is not necessary to operate the function selection key 3, and is much more convenient a case.

[0010]

[Effect of the Device]

As mentioned above, according to the facsimile machine with the one-touch function key concerning this design. When performing various functions added to the facsimile machine, it is not necessary to perform troublesome key operation on condition of a function key and a ten key like before. A one-touch function key is operated, a predetermined function can be performed easy accuracy and promptly, without referring to manuals, such as a code table, and it is very convenient.

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TECHNICAL FIELD

[Industrial Application]

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PRIOR ART

[Description of the Prior Art]

Although the latest facsimile machine is in the multi-functionalization tendency to make one piece of equipment possess various options, it comprises the former the actual condition so that a function key and a ten key may be used and the option of these versatility may be chosen and performed for the reduction of a key space.

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EFFECT OF THE INVENTION

[Effect of the Device]

As mentioned above, according to the facsimile machine with the one-touch function key concerning this design. When performing various functions added to the facsimile machine, it is not necessary to perform troublesome key operation on condition of a function key and a ten key like before. A one-touch function key is operated, a predetermined function can be performed easy accuracy and promptly, without referring to manuals, such as a code table, and it is very convenient.

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TECHNICAL PROBLEM

[Problem(s) to be Solved by the Device]

However, in the above-mentioned conventional thing, in order to choose and perform various options by a function key and tenkeys operation, it is necessary to carry out, checking the function key and tenkeys operation according to an option in detail by manuals, such as a code table, and very inconvenient. It became so remarkable [a difficulty] that a facsimile machine multi-functionalizes this difficulty, and there was a possibility that the operation mistakes of a complicated function key and tenkeys operation might also occur frequently.

This design cancels the above-mentioned conventional difficulty, and aims at providing the facsimile machine which does not need reference of a manual, etc. but can perform simply and promptly selection of the function added to the facsimile machine, and execution.
[0004]

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MEANS

[Means for solving problem]

To achieve the above objects, the facsimile machine with the one-touch function key concerning proposed this design is provided with the following.

The one-touch function key group which displays the option which can be performed and a navigational panel comes to arrange.

The signal processing part which does selection execution of the control program of the option displayed on the one-touch function key when which key of this one-touch function key group was operated.

[0005]

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OPERATION

[Function]

In a facsimile machine with the one-touch function key characterized by the above-mentioned composition, the function which was added to the facsimile machine and which can be performed can distinguish promptly by the display of the one-touch function key arranged by the navigational panel. If the one-touch function key applicable to the option is operated when performing an option, a signal processing part will choose the control program of the option concerned promptly, and will execute it, and a complicated function key and tenkeys operation will become unnecessary.

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EXAMPLE

[Working example]

Hereafter, one embodiment of a facsimile machine with the one-touch function key concerning this design is described with reference to Drawings.

The outline view of a navigational panel and drawing 3 of the block diagram and drawing 2 which drawing 1 showed the important section composition of this design are the outline views of a facsimile machine.

As shown in these each figure, facsimile machine F concerning this example, To navigational panel P formed in the surface part of a facsimile machine body, with various keys for operation which are function selection keys, such as the function selection key 3, the key 5 for a start, the key 6 for a copy, the key 7 for a stop, and the ten key 8. The one-touch function key group 1 for performing the predetermined option added to the facsimile machine arranges, and is provided. L is a liquid crystal display.

[0007]

It is for each one-touch function keys 1a and 1b of the one-touch function key group 1 and ... carrying out selection execution of the specific option, and the contents of two kinds of options are briefly displayed on these each key in about the same account as two step. That is, a time setting function for the one-touch function key 1a to set a facsimile as time setting mode and the international time acknowledgement function for displaying the time of a certain specific foreign country on the liquid crystal display L are made to serve a double purpose. After setting the one-touch function key 1z as international time check mode by said key 1a, it is for choosing the foreign country which wants to know time, and the various foreign country names or city names which were registered beforehand are displayed. What is called ID function and a manuscript acknowledgement function are made to serve a double purpose, and the former ID function of the one-touch function key 1b is for registering, searching and inputting the ID number which distinguishes itself, for example. [of confidential communication, distinction of a receiving manuscript, or a memory manuscript] [others, such as arrangement, and oneself] The latter manuscript acknowledgement function displays on the liquid crystal display L the quantity and the information on the manuscript read into the memory of the facsimile, or carries out a printout to a recording form with one fourth of half size letters.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]The block diagram showing an example of the important section composition of the facsimile machine concerning this design.

[Drawing 2]The front view showing an example of a navigational panel.

[Drawing 3]The perspective view showing an example of the appearance of the facsimile machine concerning this design.

[Drawing 4]The flow chart figure showing an example of the operation procedures of the facsimile machine concerning this design.

[Explanations of letters or numerals]

1 One-touch function key group

1a 1b One-touch function key

9 Signal processing part

P Navigational panel

[Translation done.]